

FIG.1

TRANSMITTING SIDE

CHANNEL STATE

SUBCARRIER

5 RECEIVING SIDE

FIG.2

10 MULTICARRIER TRANSMISSION APPARATUS

TRANSMISSION DATA

10 12 MAPPING SECTION

13 PHASE ROTATION SECTION

14 IQ SEPARATION SECTION

15 16 BUFFER

17 INTERLEAVER

15 18 COMBINING SECTION

19 S/P SECTION

20 IFFT SECTION

21 RADIO TRANSMISSION SECTION

20 FIG.3

30 MULTICARRIER RECEPTION APPARATUS

33 RADIO RECEPTION SECTION

34 FFT SECTION

35 PHASE COMPENSATION SECTION

25 36 IQ SEPARATION SECTION

37 38 BUFFER

39 DEINTERLEAVER

40 COMBINING SECTION
41 PHASE ROTATION SECTION
42 DEMAPPING SECTION
RECEPTION DATA

5

FIG.5
I COMPONENT
Q COMPONENT
SUBCARRIER

10

FIG.7
100 MULTICARRIER TRANSMISSION APPARATUS
TRANSMISSION DATA
101 MAPPING SECTION

15 102 PHASE ROTATION SECTION
103 108 IQ SEPARATION SECTION
104 105 109 110 BUFFER
106 111 INTERLEAVER
107 112 COMBINING SECTION

20 113 S/P SECTION
114 IFFT SECTION
115 RADIO TRANSMISSION SECTION

FIG.9

25 I COMPONENT
Q COMPONENT

FIG.11

I COMPONENT

Q COMPONENT

SUBCARRIER

5

FIG.13

200 MULTICARRIER TRANSMISSION APPARATUS

TRANSMISSION DATA

101 MAPPING SECTION

10 201 203 PHASE ROTATION SECTION

108 202 IQ SEPARATION SECTION

104 105 109 110 BUFFER

106 111 INTERLEAVER

107 112 COMBINING SECTION

15 113 S/P SECTION

114 IFFT SECTION

115 RADIO TRANSMISSION SECTION

FIG.14

20 300 MULTICARRIER RECEPTION APPARATUS

302 RADIO RECEPTION SECTION

303 FFT SECTION

304 PHASE COMPENSATION SECTION

305 IQ SEPARATION SECTION

25 306 307 313~316 BUFFER

308 317 318 DEINTERLEAVER

309 319 320 COMBINING SECTION

310 PHASE ROTATION SECTION
 311 SEPARATION SECTION
 312 LLR CALCULATION SECTION
 FIRST BIT
 5 SECOND BIT
 THIRD BIT
 FOURTH BIT
 321 DEMAPPING SECTION
 RECEPTION DATA

10

FIG.16

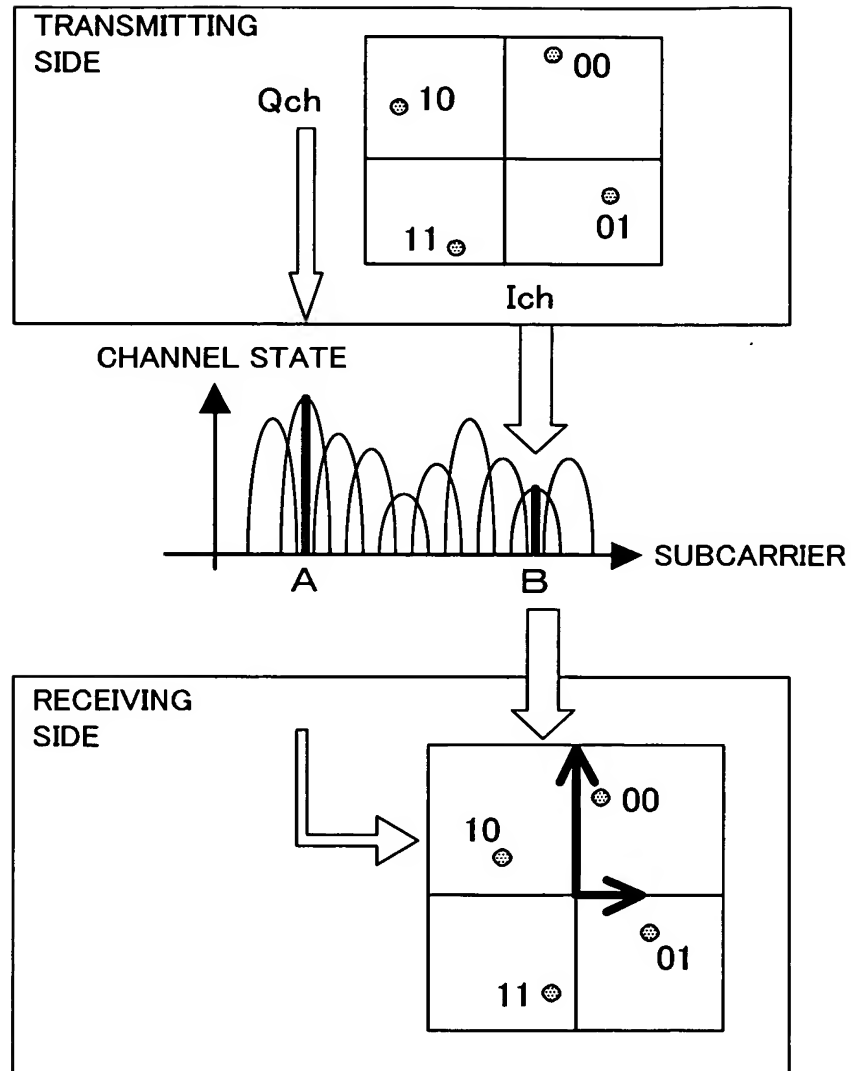
FIRST BIT
 SECOND BIT
 THIRD BIT

15 FOURTH BIT

RECEPTION POINT
 CANDIDATE POINT FOR "1"
 CANDIDATE POINT FOR "0"

20 FIG.17

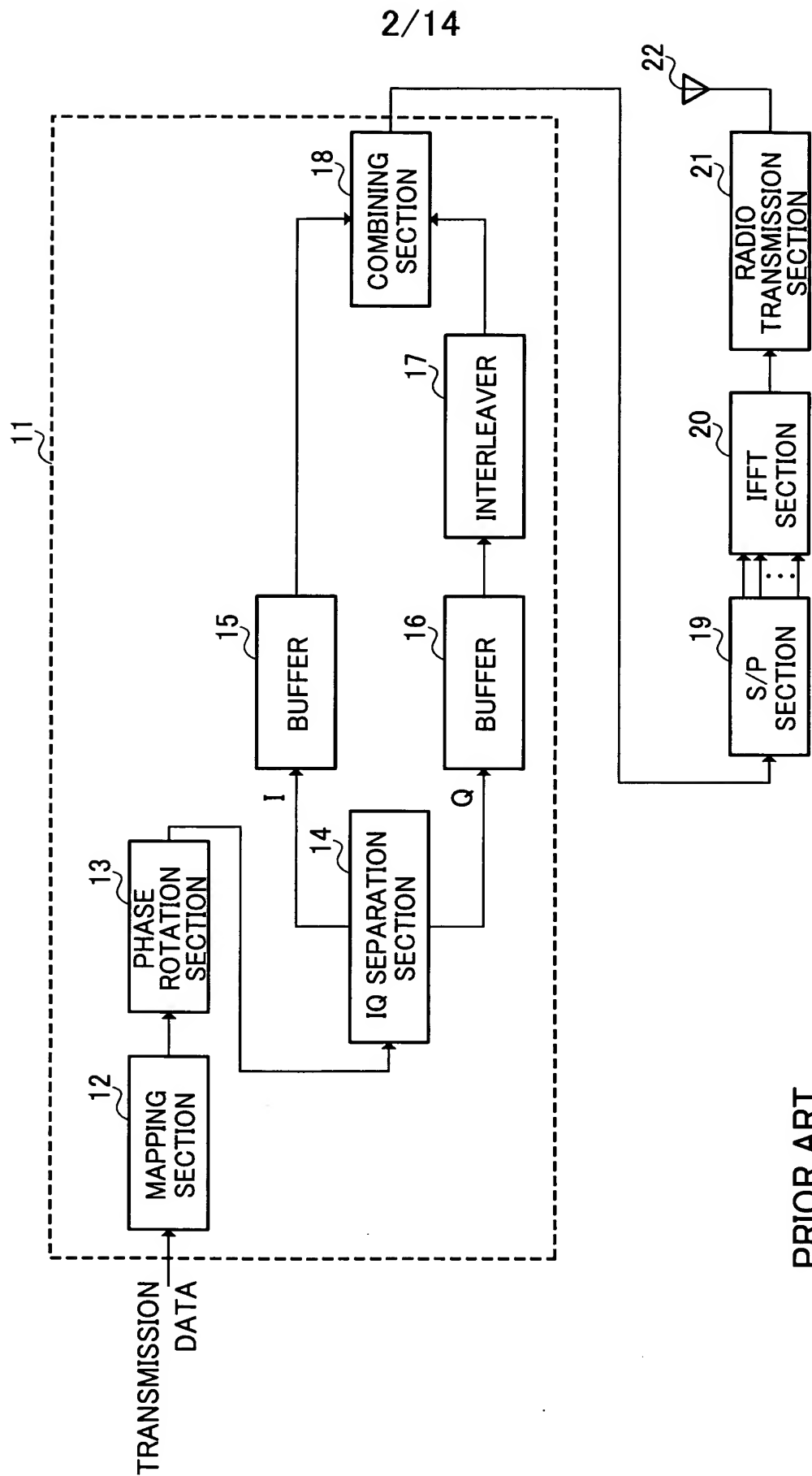
RECEPTION POINT X
 CANDIDATE POINT FOR "1"
 CANDIDATE POINT FOR "0"
 POSITION



PRIOR ART

FIG.1

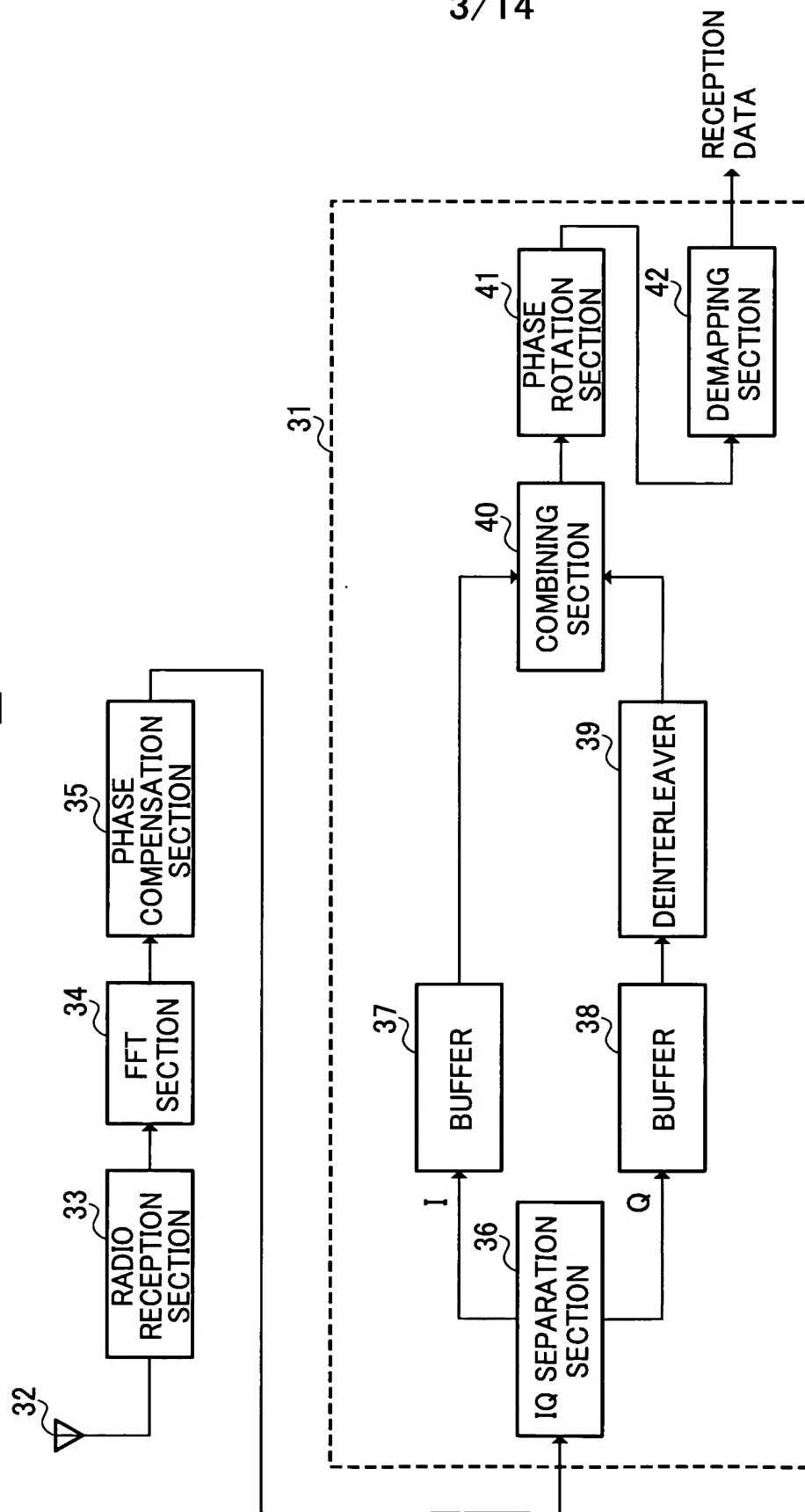
10 MULTICARRIER TRANSMISSION APPARATUS



PRIOR ART

FIG.2

30 MULTICARRIER RECEPTION APPARATUS



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PRIOR ART

FIG.3

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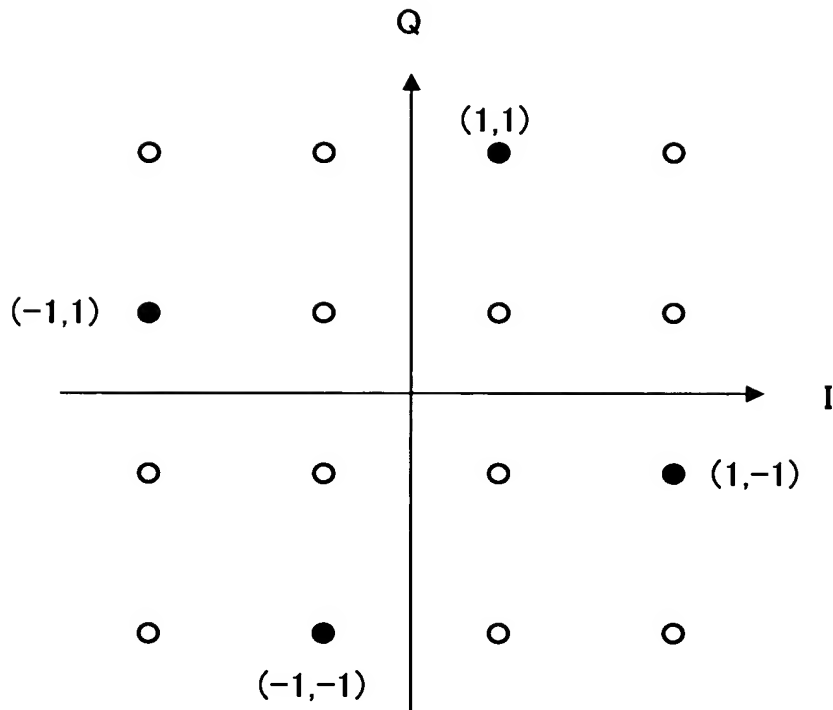


FIG.4

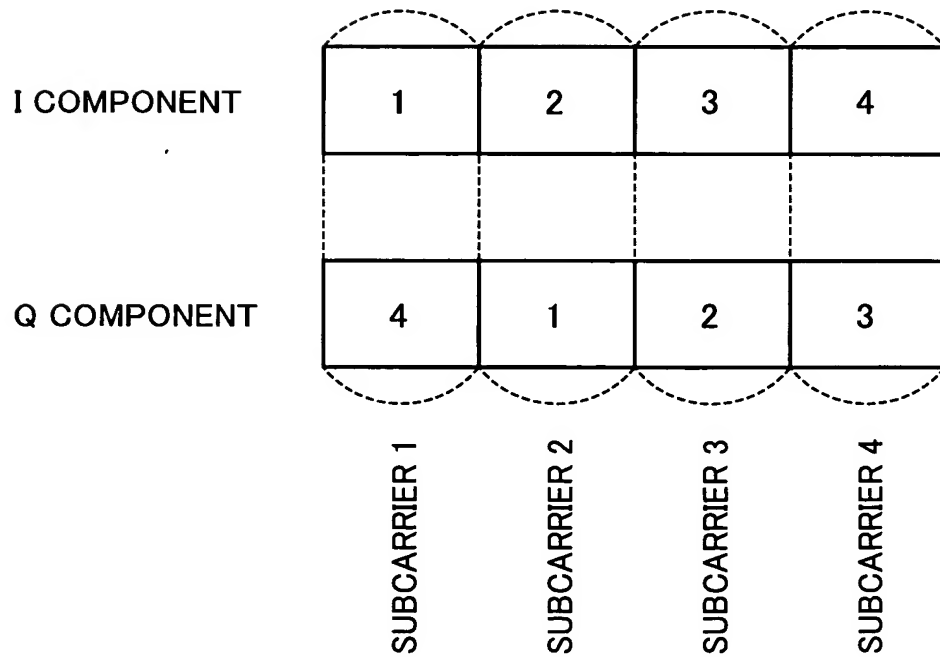


FIG.5

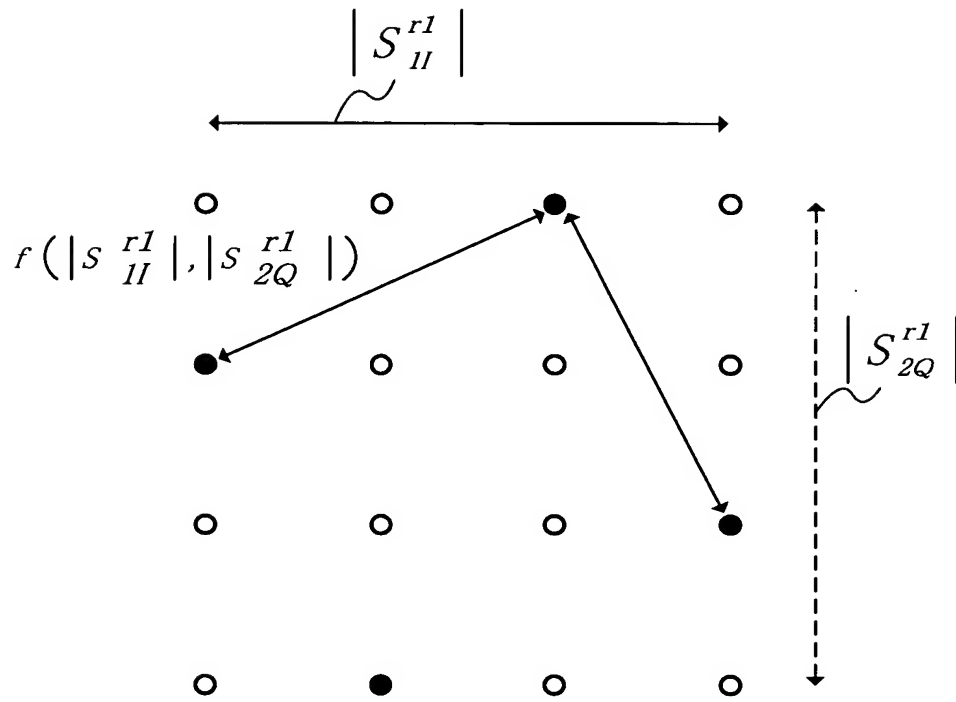
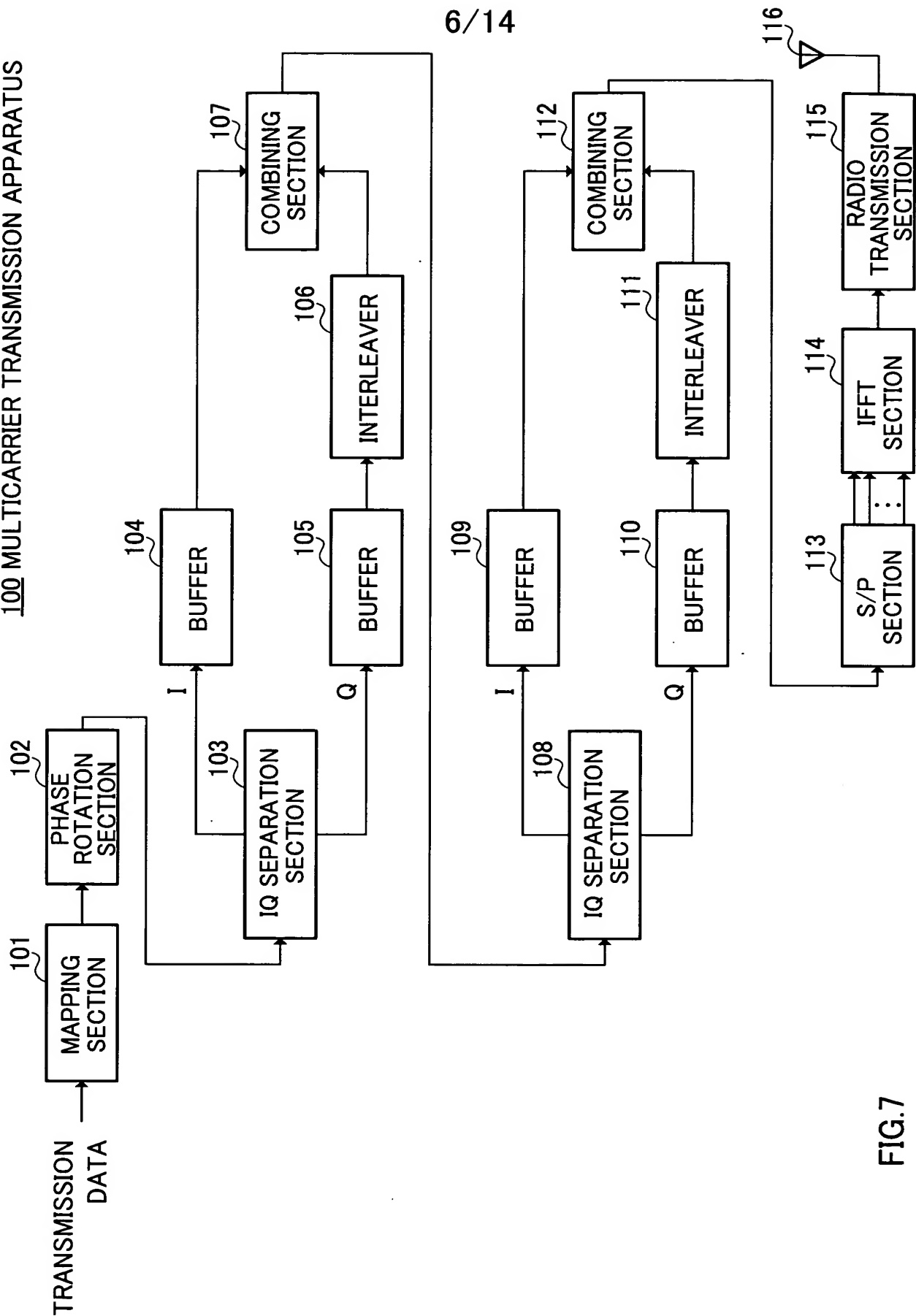


FIG.6

100 MULTICARRIER TRANSMISSION APPARATUS



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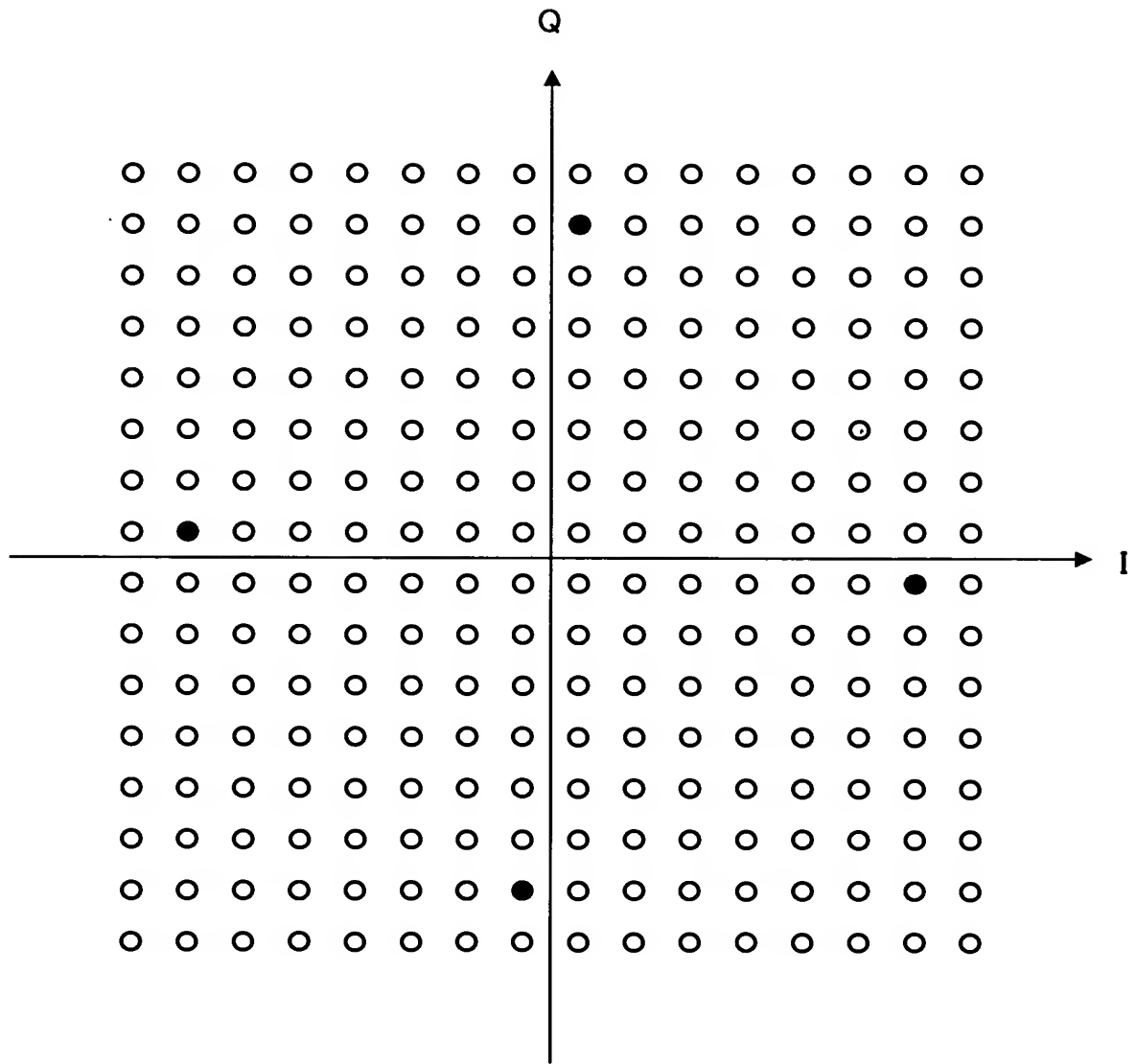


FIG.8

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I COMPONENT	1	2	3	4
Q COMPONENT	4	1	2	3

FIG.9

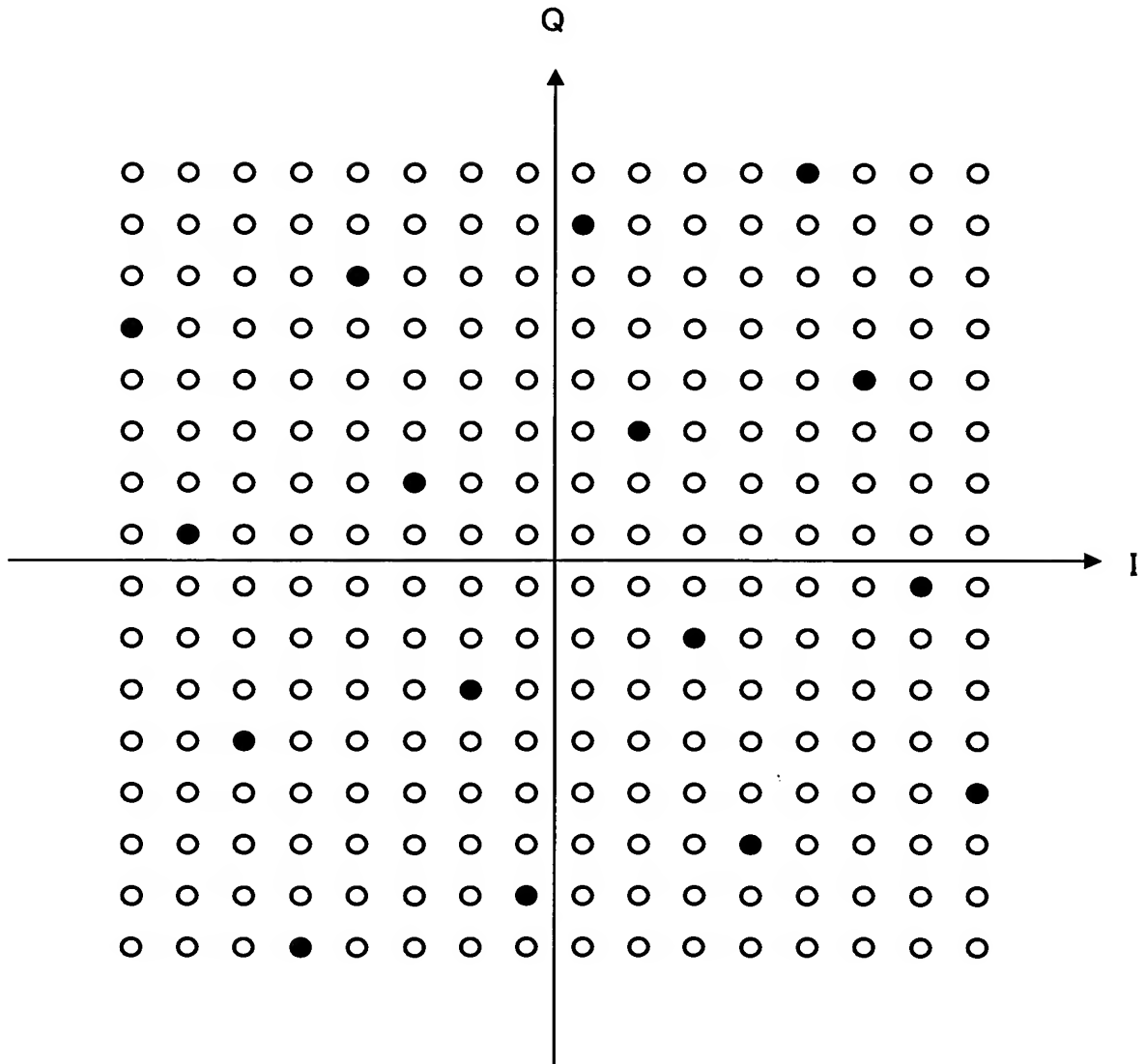


FIG.10

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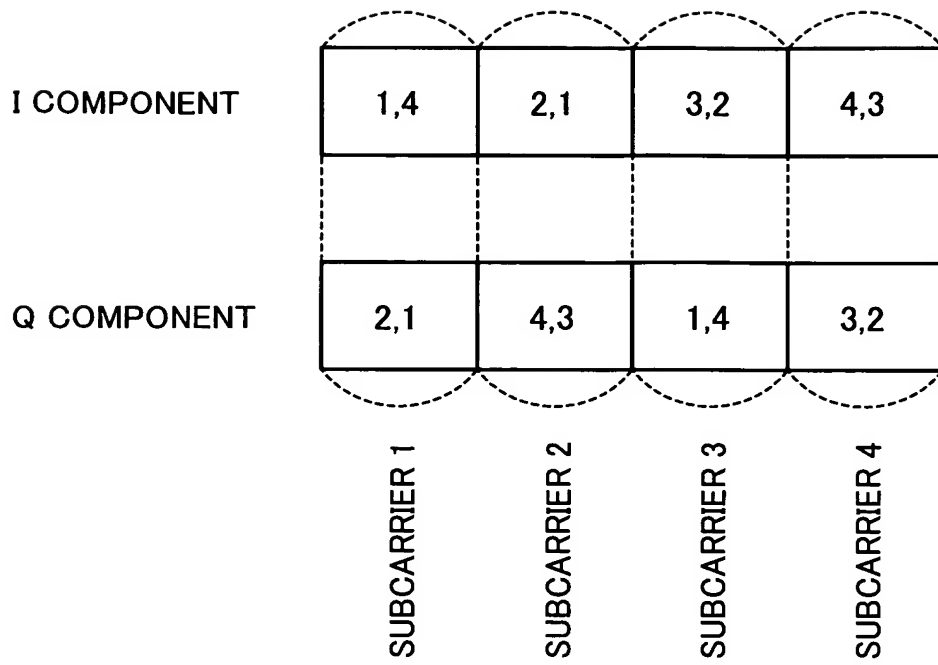


FIG.11

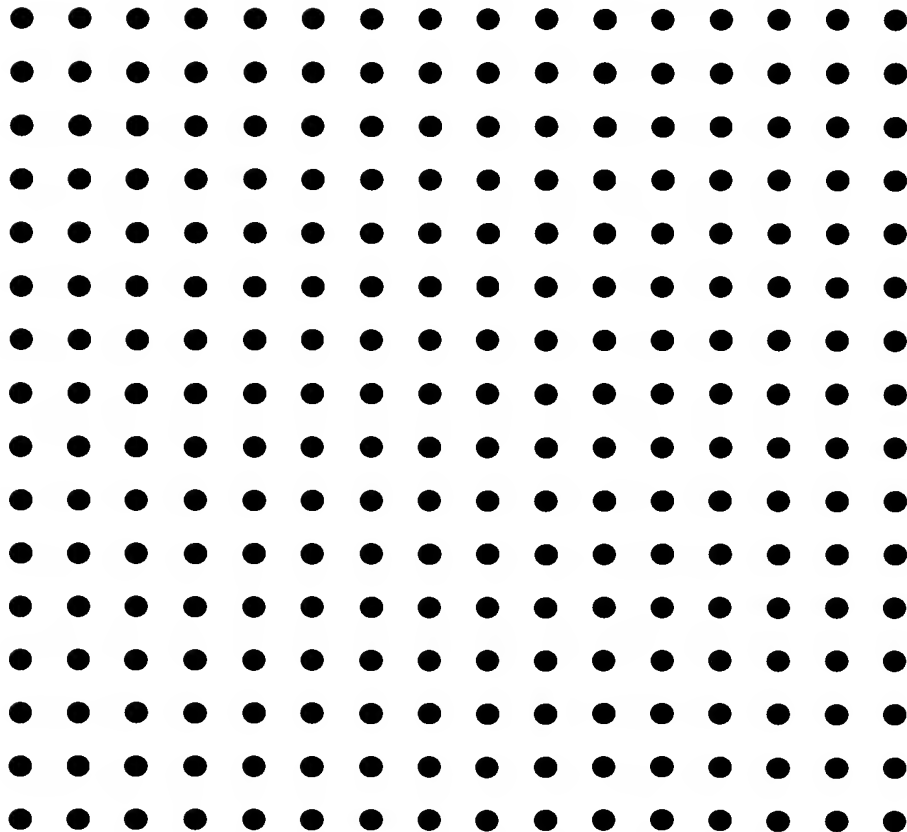


FIG.12

TRANSMISSION
DATA

300 MULTICARRIER RECEPTION APPARATUS

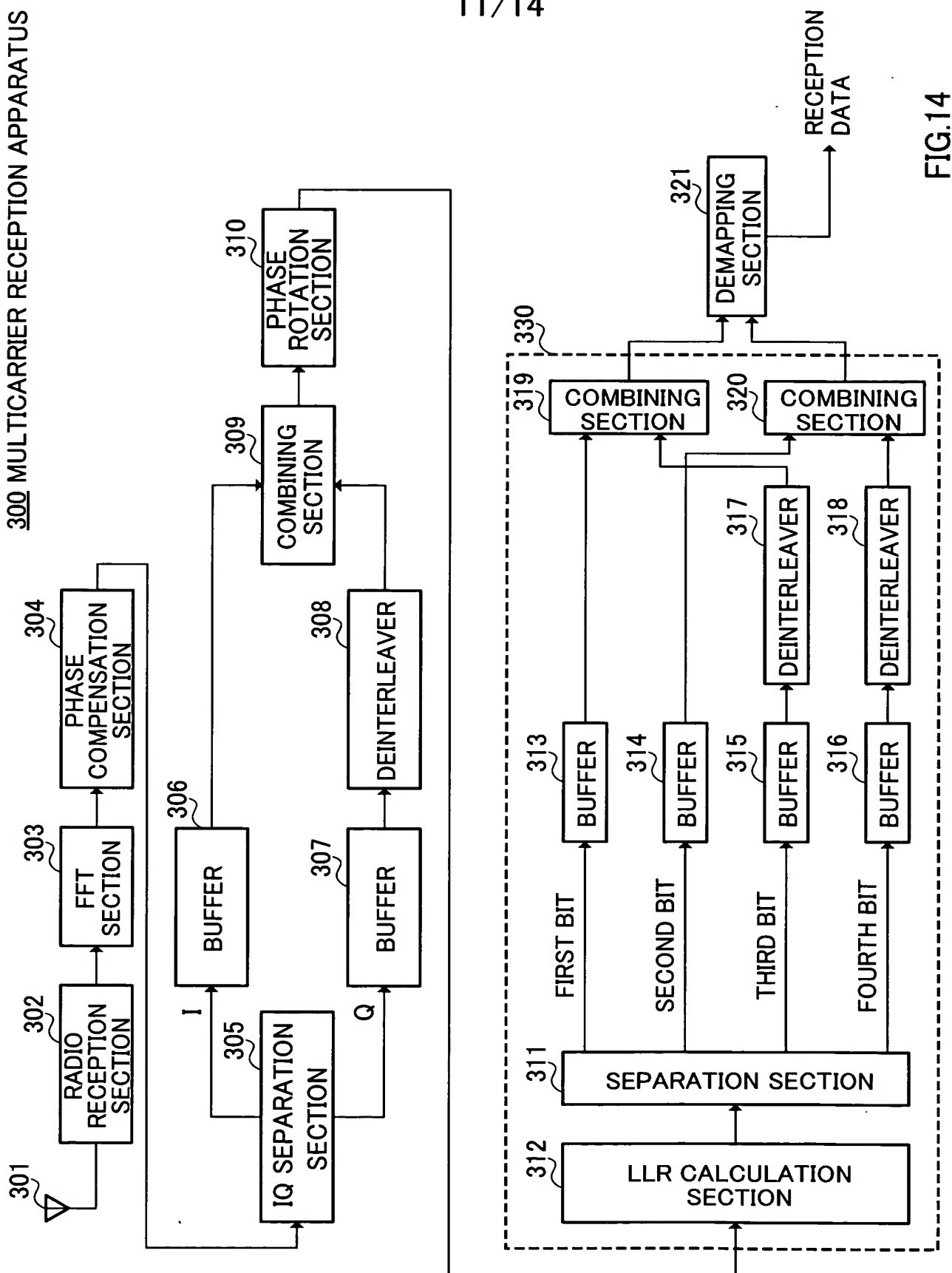


FIG.14

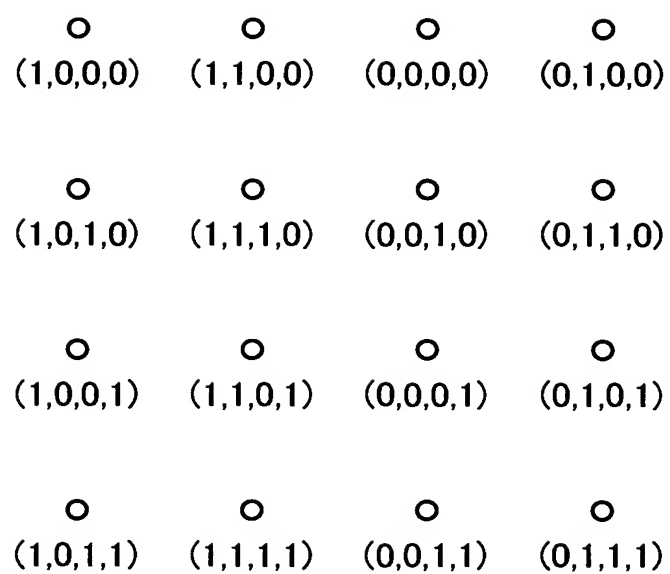


FIG.15

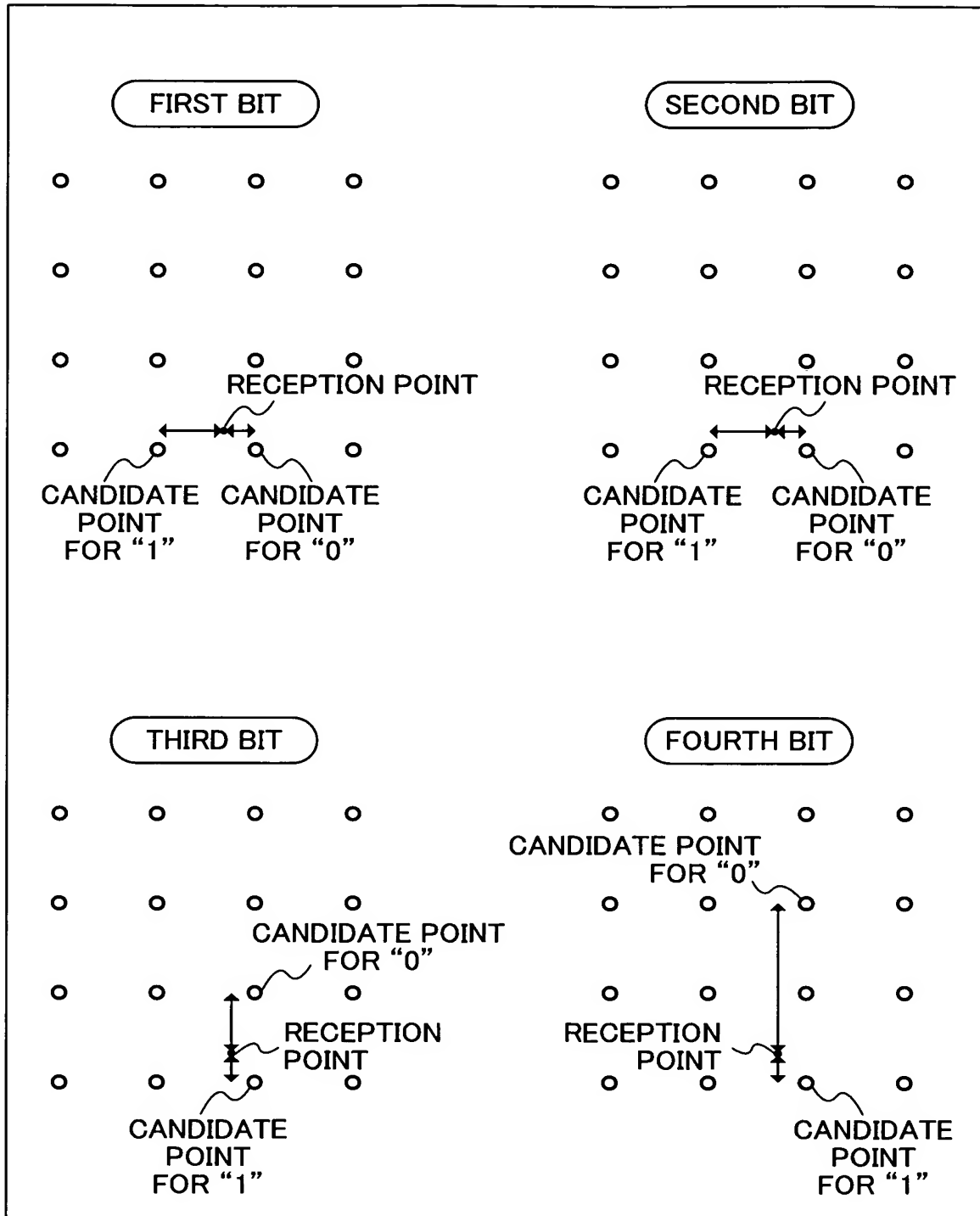


FIG.16

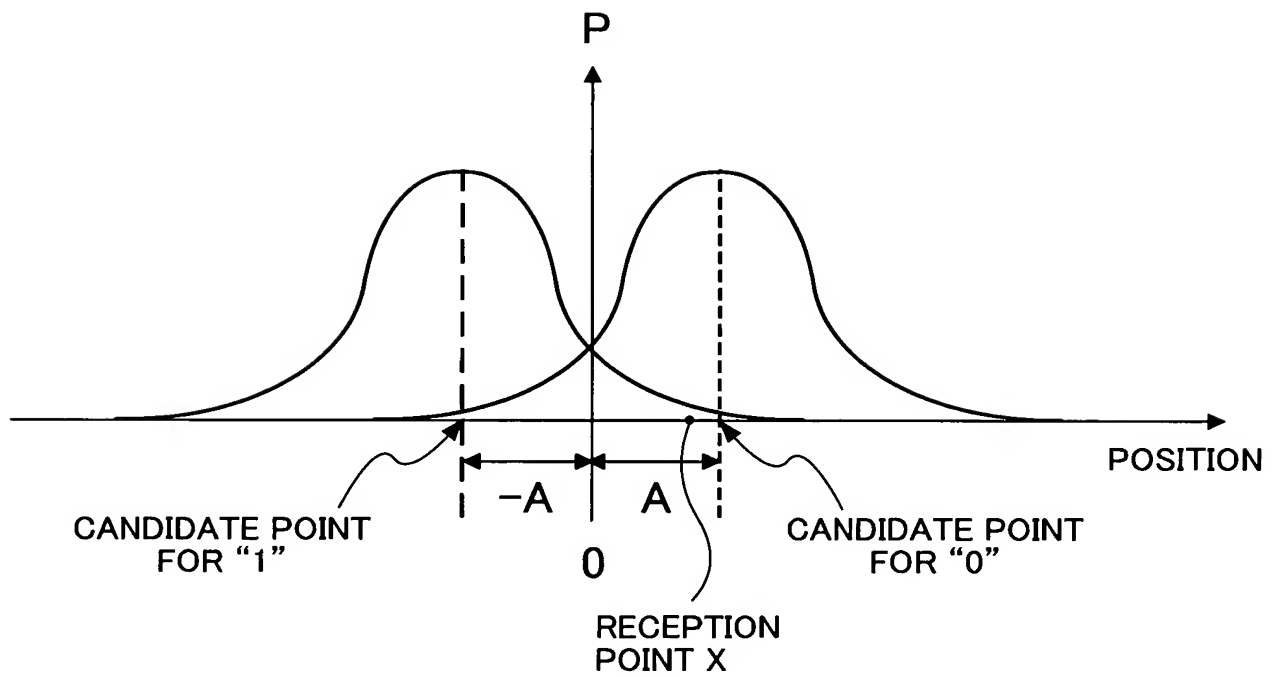


FIG.17